SECRET CMCC 151X5.1358

27 January 1959

25X1A9a

To: Headquarters, Att: [redacted]

DD/P 0872-59
Cy 2 of 3

From: [redacted] 25X1A

Re: System 4

25X1A9a

In response to a telephone call from [redacted] the following information has been abstracted from a report to Headquarters (CMCC 151X5.1279 dated 3 November 1958).

"Bands 1A and 1B have a tangential sensitivity of approximately -100 dbm. [redacted] furnished this contractor a sample low-noise amplifier to be used in tests to determine if the tangential sensitivity of bands 1A and 1B could be increased. Such tests have been completed, and the following conclusions have been made: 25X1A9a

"1. Any increased sensitivity would not be useful until the present level of electrical interference is suppressed or reduced.

"2. Discounting the electrical interference, the addition of the amplifier would increase the tangential sensitivity by approximately 6 db. This could be improved even further. The limitation now is due to the fact that the sample amplifier is not well matched to the input impedance of the band 1 receivers."

The sample amplifier and power supply were mounted directly to the System 4 "A" frame. The present rack cabling has no facilities for providing primary power, but this could be accomplished by a relatively simple field modification kit.

25X1A9a

[redacted]

PWA:hcp

Orig
2 - A-101
3 - Comm.

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